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ATTORNEY DOCKET NO. 14114.0344U2

SEQUENCE LISTING

<110> The Government of the United States of America, as represented by
the Secretary, Department of Health and Human Services,
c/o Centers for Disease Control and Prevention
Khudyakov, Yury
Fields, Howard

<120> MOSAIC PROTEIN AND RESTRICTION ENDONUCLEASE ASSISTED
LIGATION METHOD FOR MAKING THE SAME

<130> 14114.0344U2

<140> 09/491,146

<141> 01-25-00

<150> 08/921,887

<151> 25-08-97

<160> 55

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 55

<212> DNA

<213> Hepatitis C virus

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<213> Hepatitis C virus

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60

69

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<212> DNA

<213> Hepatitis C virus

B5

RECEIVED

JAN 17 2002

TECH CENTER 1600/2900

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B5
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<212> DNA
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<211> 60
<212> DNA
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<212> DNA

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<211> 69

<212> DNA

<213> Hepatitis C virus

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<211> 69

<212> DNA

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<210> 15

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B5
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<211> 73
<212> DNA
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 Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
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 Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25

b5
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 Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
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 Pro Lys Pro Gln Arg Lys Pro Asn Arg Asn Thr Asn Arg Arg Pro Gln
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 Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25

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 <212> PRT
 <213> Hepatitis C virus

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 Pro Lys Pro Gln Arg Gln Pro Lys Arg Asn Thr Pro Arg Arg Pro Gln
 1 5 10 15
 Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25

<210> 28

<211> 28

<212> PRT

<213> Hepatitis C virus

<400> 28

Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Ala His Arg Arg Pro Gln

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Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly

20 25

<210> 29

<211> 28

<212> PRT

<213> Hepatitis C virus

<400> 29

Pro Lys Pro Gln Lys Arg Asn Gln Arg Asn Thr Asn Arg Arg Pro Gln

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Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly

20 25

<210> 30

<211> 28

<212> PRT

<213> Hepatitis C virus

<400> 30

Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile Arg Arg Pro Gln

1 5 10 15

Asp Val Lys Phe Pro Gly Gly Gly Val Ile Tyr Val

20 25

<210> 31

<211> 28

<212> PRT

<213> Hepatitis C virus

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Asp Val Arg Phe Ser Gly Gly Gly Gln Ile Val Gly

20 25

<210> 32

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<212> PRT

<213> Hepatitis C virus

<400> 32

Pro Lys Pro Lys Arg Gln Thr Lys Arg Asn Thr Leu Arg Arg Pro Lys

1 5 10 15

Asn Val Lys Phe Pro Ala Gly Gly Gln Ile Val Gly

20 25

<210> 33

<211> 28

<212> PRT

<213> Hepatitis C virus

<400> 33

Pro Lys Pro Gln Arg Lys Thr Lys Arg Lys Ala His Arg Arg Pro Gln
1 5 10 15
Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25

<210> 34

<211> 82

<212> DNA

<213> Hepatitis C virus

<400> 34

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ttcaaacaaa aggcaattcg tc 82

<210> 35

<211> 84

<212> DNA

<213> Hepatitis C virus

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ccccggatcc taactagcct cttccatctc atcaaactcc tgatacaaaa cctccctatc 60
cgggataaca gccggacgaa gtgc 84

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<211> 85

<212> DNA

<213> Hepatitis C virus

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tttaaacaga aggctctggc ttttg 85

<210> 37

<211> 81

<212> DNA

<213> Hepatitis C virus

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accccgagaa gcaaaagcca g 81

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<211> 81

<212> DNA

<213> Hepatitis C virus

<400> 38

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gagatggagg aggcttttgc g 81

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<211> 79

<212> DNA

<213> Hepatitis C virus

<400> 39

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cccacgagac gcaaaagcc 79

<210> 40

<211> 83

<212> DNA

<213> Hepatitis C virus

<400> 40

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ttaaggaga aggttcttgc ttt 83

<210> 41

<211> 83

<212> DNA

<213> Hepatitis C virus

<400> 41

ccccggatcc tacggcttcg cgtccgactc aggaacataa tgagtcggag aatcatgatt 60
accacgagaa gcaaaagcaa gaa 83

<210> 42

<211> 79

<212> DNA

<213> Hepatitis C virus

<400> 42

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gagatggagg agtcacagc 79

<210> 43

<211> 87

<212> DNA

<213> Hepatitis C virus

<400> 43

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ctcaatgtac ggaagatgct gtgactc 87

<210> 44

<211> 76

<212> DNA

<213> Hepatitis C virus

<400> 44

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gagtcagatg ctaagc 76

<210> 45

<211> 84

<212> DNA

<213> Hepatitis C virus

<400> 45

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cggaaccaga gccggcttag catc 84

<210> 46

<211> 80

<212> DNA

<213> Hepatitis C virus

<400> 46

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gagtcagatg cttctgcttc 80

<210> 47

<211> 86

<212> DNA

<213> Hepatitis C virus

<400> 47

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gtccatatac ggcagagaag cagaag 86

<210> 48

<211> 80

<212> DNA

<213> Hepatitis C virus

<400> 48

ccccgaattc aagctttcgc tagtcgtggg aatcatgtgt cgccgcgtca ttatgtgcct 60
gagtctgagc ctcaggttgt 80

<210> 49

<211> 80

<212> DNA

<213> Hepatitis C virus

<400> 49

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cggcgtaaca acaacctgag 80

<210> 50

<211> 52

<212> DNA

<213> Hepatitis C virus

<400> 50

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<210> 51

<211> 48

<212> DNA

<213> Hepatitis C virus

<400> 51

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48

<210> 52

<211> 352

<212> PRT

<213> Hepatitis C virus

<400> 52

Ala Ala His Ile Pro Tyr Leu Glu Gln Gly Met His Leu Ala Glu Gln
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 Phe Lys Gln Lys Ala Leu Arg Pro Ala Val Ile Pro Asp Arg Glu Val
 20 25 30
 Leu Tyr Gln Glu Phe Asp Glu Met Glu Glu Ala Ser His Leu Pro Tyr
 35 40 45
 Ile Glu Gln Gly Met Gln Leu Ala Glu Gln Phe Lys Gln Lys Ala Leu
 50 55 60

Ala Phe Ala Ser Arg Gln Asn His Val Ser Pro Thr His Tyr Val Pro
 65 70 75 80
 Glu Ser Asp Ala Arg Pro Ala Ile Ile Pro Asp Arg Glu Val Leu His
 85 90 95
 Arg Glu Phe Asp Glu Met Glu Glu Ala Phe Ala Ser Arg Gly Asn His
 100 105 110
 Val Ser Pro Ala His Tyr Val Pro Glu Ser Asp Ala Ser Gln Ala Ala
 115 120 125
 Pro Tyr Ile Glu Gln Ala Gln Val Ile Ala His Gln Phe Lys Glu Lys
 130 135 140
 Val Leu Ala Phe Ala Ser Arg Gly Asn His Asp Ser Pro Thr His Tyr
 145 150 155 160
 Val Pro Glu Ser Asp Ala Lys Pro Ala Ile Ile Pro Asp Arg Glu Val
 165 170 175
 Leu Tyr Arg Glu Phe Asp Glu Met Glu Glu Ser Gln His Leu Pro Tyr
 180 185 190
 Ile Glu Gln Gly Met Met Leu Ala Glu Gln Phe Lys Gln Lys Ala Leu
 195 200 205
 Ala Phe Ala Ser Arg Gly Asn His Val Ala Pro Thr His Tyr Val Thr
 210 215 220

Glu Ser Asp Ala Lys Pro Ala Leu Val Pro Asp Lys Glu Val Leu Tyr
 225 230 235 240
 Gln Gln Tyr Asp Glu Met Glu Glu Ala Phe Ala Ser Arg Gly Asn His
 245 250 255
 Val Ala Pro Thr His Tyr Val Val Glu Ser Asp Ala Ser Ala Ser Leu
 260 265 270
 Pro Tyr Met Asp Glu Thr Arg Ala Ile Ala Gly Gln Phe Lys Glu Lys
 275 280 285
 Val Leu Ala Phe Ala Ser Arg Gly Asn His Val Ser Pro Arg His Tyr
 290 295 300

Val Pro Glu Ser Glu Pro Gln Val Val Val Thr Pro Asp Lys Glu Ile
 305 310 315 320
 Leu Tyr Glu Ala Phe Asp Glu Met Glu Glu Ala Ser Lys Ala Ala Leu
 325 330 335
 Ile Glu Glu Gly Gln Arg Met Ala Glu Met Leu Lys Ser Lys Ile Gln
 340 345 350

<210> 53

<211> 57

<212> DNA

<213> Hepatitis C virus

<400> 53

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57

<210> 54

<211> 27

<212> DNA

<213> Hepatitis C virus

<400> 54

tcgcagcgaa ttctcgagga tccatcc

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<210> 55

<211> 55

<212> DNA

<213> Hepatitis C virus

<400> 55

ctgggttccgc gtggatcgca gcaattctc gaggatccat ccggccgcgc cgtga

55